OAMENDMENTS TO THE CLAIMS:

Please change the heading at page 91, line 1, from "Claims" to --WHAT IS CLAIMED IS:--

The following listing of claims will replace all prior versions of claims in the application.

Claims 1-14 (canceled)

-- Claim 15 (new): A biphenylcarboxamide of formula (I)

in which

- R represents hydrogen or C_1 - C_6 -alkyl; or represents C_1 - C_3 -haloalkyl having 1 to 7 fluorine, chlorine, and/or bromine atoms,
- Z represents C₃-C₈-alkenyl or C₃-C₈-alkynyl; represents C₃-C₈-haloalkenyl or C₃-C₈-haloalkynyl having 1 to 5 fluorine, chlorine, and/or bromine atoms; or represents (C₃-C₈-cycloalkyl)(C₁-C₄-alkyl),
- X and Y independently of one another represent halogen, cyano, nitro, C_1 - C_8 -alkyl, C_1 - C_8 -alkoxy, or C_1 - C_8 -alkylthio, or represent C_1 - C_6 -haloalkyl, C_1 - C_6 -haloalkylthio having 1 to 13 fluorine, chlorine, and/or bromine atoms,
- m represents 0, 1, 2, 3, or 4, with the proviso that X represents identical or different radicals when m represents 2, 3, or 4,
- n represents 0, 1, 2, 3, or 4, with the proviso that Y represents identical or different radicals when n represents 2, 3, or 4, and
- A represents

(i) a radical of the formula

$$R^1$$
 N
 R^2
 R^3

in which

R¹ represents hydrogen, cyano, halogen, nitro, C₁-C₄-alkyl, C₃-C₆-cycloalkyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, aminocarbonyl, or aminocarbonyl-C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl, C₁-C₄-haloalkoxy, or C₁-C₄-haloalkylthio having 1 to 5 halogen atoms,

R² represents hydrogen, halogen, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy, or C₁-C₄-alkylthio, and

R³ represents hydrogen, C₁-C₄-alkyl, hydroxy-C₁-C₄-alkyl, C₂-C₆-alkenyl, C₃-C₆-cycloalkyl, C₁-C₄-alkylthio-C₁-C₄-alkyl, or C₁-C₄-alkyl; represents C₁-C₄-haloalkyl, halo(C₁-C₄-alkyl-thio-C₁-C₄-alkyl), or halo(C₁-C₄-alkoxy-C₁-C₄-alkyl) having 1 to 5 halogen atoms; or represents phenyl,

or

(ii) a radical of the formula

in which

R⁴ and R⁵ independently of one another represent hydrogen, halogen,
C₁-C₄-alkyl, or C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and
R⁶ represents halogen, cyano or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl or C₁-C₄-haloalkoxy having 1 to 5 halogen atoms,

or

(iii) a radical of the formula

in which

R⁷ and R⁸ independently of one another represent hydrogen, halogen, C₁-C₄-alkyl, or C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and R⁹ represents hydrogen, halogen, or C₁-C₄-alkyl,

or

(iv) a radical of the formula

in which R^{10} represents hydrogen, halogen, hydroxyl, cyano, or C_1 - C_6 -alkyl; or represents C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkoxy, or C_1 - C_4 -haloalkylthio having 1 to 5 halogen atoms,

or

(v) a radical of the formula

in which

R¹¹ represents halogen, hydroxyl, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy, or C₁-C₄-alkylthio; or represents C₁-C₄-haloalkyl, C₁-C₄-haloalkyl, c₁-C₄-haloalkylthio having 1 to 5 halogen atoms, and represents hydrogen, halogen, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, or C₁-C₄-alkylsulfonyl; or represents C₁-C₄-haloalkyl or C₁-C₄-haloalkoxy having 1 to 5 halogen atoms,

or

(vi) a radical of the formula

in which

R¹³ represents C₁-C₄-alkyl or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

R¹⁴ represents C₁-C₄-alkyl,

X¹ represents S, SO, SO₂, or CH₂, and

p represents 0, 1, or 2,

or

(vii) a radical of the formula

in which R^{15} represents C_1 - C_4 -alkyl or represents C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

(viii) a radical of the formula

in which R^{16} represents C_1 - C_4 -alkyl or represents C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

(ix) a radical of the formula

in which

R¹⁷ represents halogen, cyano, C₁-C₄-alkyl or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

R¹⁸ represents hydrogen, halogen, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and

R¹⁹ represents hydrogen, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl having 1 to 5 halogen atoms, C₁-C₄-alkoxy-C₁-C₄-alkyl, hydroxy-C₁-C₄-alkyl, C₁-C₄-alkysulfonyl, di(C₁-C₄-alkyl)aminosulfonyl, C₁-C₆-alkylcarbonyl; or represents optionally substituted phenylsulfonyl or benzoyl,

CS8535

or

(x) a radical of the formula

$$R^{21}$$
 R^{20}
 R^{22}

in which

R²⁰ and R²¹ independently of one another represent hydrogen, halogen, amino, or C₁-C₄-alkyl or represent C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and

R²² represents hydrogen, halogen, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

(xi) a radical of the formula

$$R^{24}$$
 R^{25}

in which

R²³ and R²⁴ independently of one another represent hydrogen, halogen, amino, nitro, or C₁-C₄-alkyl or represent C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and

R²⁵ represents hydrogen, halogen, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

(xii) a radical of the formula

in which

R²⁶ represents hydrogen, halogen, amino, C₁-C₄-alkylamino, di(C₁-C₄-alkyl)amino, cyano, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and

CS8535

R²⁷ represents halogen, C₁-C₄-alkyl, or C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

(xiii) a radical of the formula

in which

 R^{28} represents hydrogen, halogen, amino, C_1 - C_4 -alkylamino, di(C_1 - C_4 -alkyl)amino, cyano, or C_1 - C_4 -alkyl; or represents C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms, and

R²⁹ represents halogen, C₁-C₄-alkyl, or C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

(xiv) a radical of the formula



in which R^{30} represents halogen, C_1 - C_4 -alkyl, or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

(xv) a radical of the formula

$$R^{31}$$
 O
 R^{32}

in which

 R^{31} represents hydrogen or $C_1\text{-}C_4\text{-}alkyl$, and

R³² represents halogen or C₁-C₄-alkyl,

(xvi) a radical of the formula

in which R^{33} represents C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

(xvii) a radical of the formula

in which R^{34} represents hydrogen, halogen, C_1 - C_4 -alkyl, or C_1 - C_2 -haloalkyl having 1 to 5 halogen atoms.

Claim 16 (new): A biphenylcarboxamide of formula (I) as claimed in Claim 15 in which

- R represents hydrogen, C₁-C₄-alkyl, or C₁-C₃-haloalkyl having 1 to 7 fluorine, chlorine, and/or bromine atoms,
- Z represents C₃-C₆-alkenyl or C₃-C₆-alkynyl; represents C₃-C₆-haloalkenyl or C₃-C₆-haloalkynyl having 1 to 5 fluorine, chlorine, and/or bromine atoms; or represents (C₃-C₆-cycloalkyl)-(C₁-C₄-alkyl),
- X and Y independently of one another represent fluorine, chlorine, bromine, cyano, nitro, C₁-C₆-alkyl, C₁-C₆-alkoxy, or C₁-C₆-alkylthio, or represent C₁-C₂-halo-alkyl, C₁-C₂-haloalkoxy, or C₁-C₂-haloalkylthio having 1 to 5 fluorine, chlorine, and/or bromine atoms,
- m represents 0, 1, 2, or 3, with the proviso that X represents identical or different radicals when m represents 2 or 3,
- n represents 0, 1, 2, or 3, with the proviso that Y represents identical or different radicals when m represents 2 or 3, and
- A represents

(i) a radical of the formula

in which

R¹ represents hydrogen, cyano, fluorine, chlorine, bromine, iodine, methyl, ethyl, isopropyl, cyclopropyl, methoxy, ethoxy, methylthio, ethylthio, aminocarbonyl, aminocarbonylmethyl, aminocarbonylethyl; represents C₁-C₂-haloalkyl or C₁-C₂-haloalkoxy having 1 to 5 fluorine, chlorine, and/or bromine atoms; or represents trifluoromethylthio or difluoromethylthio,

R² represents hydrogen, fluorine, chlorine, bromine, iodine, methyl, ethyl, methoxy, ethoxy, methylthio, or ethylthio, and

R³ represents hydrogen, methyl, ethyl, n-propyl, isopropyl, hydroxymethyl, hydroxyethyl, cyclopropyl, cyclopentyl, or cyclohexyl; represents C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms; or represents phenyl,

or

(ii) a radical of the formula

in which

R⁴ and R⁵ independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl, or C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms, and

R⁶ represents fluorine, chlorine, bromine, iodine, cyano, methyl, ethyl, trifluoromethyl, or C₁-C₂-haloalkoxy having 1 to 5 fluorine, chlorine, and/or bromine atoms,

(iii) a radical of the formula

in which

R⁷ and R⁸ independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl, or C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms, and

R⁹ represents hydrogen, fluorine, chlorine, bromine, methyl, or ethyl,

or

(iv) a radical of the formula

in which R^{10} represents hydrogen, fluorine, chlorine, bromine, iodine, hydroxyl, cyano, or C_1 - C_4 -alkyl; or represents C_1 - C_2 -haloalkyl, C_1 - C_2 -haloalkoxy, or C_1 - C_2 -haloalkylthio having 1 to 5 fluorine, chlorine, and/or bromine atoms.

or

(v) a radical of the formula

in which

R¹¹ represents fluorine, chlorine, bromine, iodine, hydroxyl, cyano, C₁-C₄-alkyl, methoxy, ethoxy, methylthio, or ethylthio; represents C₁-C₂-haloalkyl or C₁-C₂-haloalkoxy having 1 to 5 fluorine, chlorine, and/or bromine atoms; or represents trifluoromethylthio or difluoromethylthio, and

R¹² represents hydrogen, fluorine, chlorine, bromine, iodine, cyano, C₁-C₄-alkyl, methoxy, ethoxy, methylthio, ethylthio, C₁-C₂-alkyl-sulfinyl, or C₁-C₂-alkylsulfonyl; or represents C₁-C₂-haloalkyl or

C₁-C₂-haloalkoxy having 1 to 5 fluorine, chlorine, and/or bromine atoms,

or

(vi) a radical of the formula

in which

R¹³ represents methyl or ethyl, or represents C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms,

R¹⁴ represents methyl or ethyl,

X¹ represents S, SO, SO₂, or CH₂, and

p represents 0, 1, or 2,

or

(vii) a radical of the formula

in which R^{15} represents methyl or ethyl, or represents C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms,

or

(viii) a radical of the formula

in which R¹⁶ represents methyl or ethyl, or represents C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms,

or

(ix) a radical of the formula

in which

R¹⁷ represents fluorine, chlorine, bromine, cyano, methyl, ethyl, or isopropyl, or represents C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms,

R¹⁸ represents hydrogen, fluorine, chlorine, bromine, methyl, or ethyl, or represents C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms, and

R¹⁹ represents hydrogen, methyl, or ethyl; represents C₁-C₂-halo-alkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms; or represents C₁-C₂-alkoxy-C₁-C₂-alkyl, hydroxymethyl, hydroxylethyl, methylsulfonyl, or dimethylaminosulfonyl,

or

(x) a radical of the formula

$$R^{21}$$
 R^{20}
 R^{22}

in which

 R^{20} and R^{21} independently of one another represent hydrogen, fluorine, chlorine, bromine, amino, methyl, or ethyl, or represent $\mathsf{C}_1\text{-}\mathsf{C}_2\text{-}$ haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms, and

R²² represents hydrogen, fluorine, chlorine, bromine, methyl, or ethyl, or represents C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms.

or

(xi) a radical of the formula

$$R^{24}$$
 R^{25}

in which

R²³ and R²⁴ independently of one another represent hydrogen, fluorine, chlorine, bromine, amino, nitro, methyl, or ethyl, or represent

CS8535

C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms, and

R²⁵ represents hydrogen, fluorine, chlorine, bromine, methyl, or ethyl, or represents C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms,

or

(xii) a radical of the formula

in which

R²⁶ represents hydrogen, fluorine, chlorine, bromine, amino, C₁-C₄-alkylamino, di(C₁-C₄-alkyl)amino, cyano, methyl, or ethyl, or C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms, and

R²⁷ represents fluorine, chlorine, bromine, methyl, ethyl, or C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms,

or

(xiii) a radical of the formula

in which

R²⁸ represents hydrogen, fluorine, chlorine, bromine, amino, C₁-C₄-alkylamino, di(C₁-C₄-alkyl)amino, cyano, methyl, or ethyl, or represents C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms, and

R²⁹ represents fluorine, chlorine, bromine, methyl, or ethyl, or C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms,

(xiv) a radical of the formula

in which R³⁰ represents fluorine, chlorine, bromine, methyl, or ethyl, or C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms,

or

(xv) a radical of the formula

in which

R³¹ represents hydrogen, methyl, or ethyl, and

R³² represents fluorine, chlorine, bromine, methyl, or ethyl,

or

(xvi) a radical of the formula

in which

R³³ represents methyl, ethyl, or C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine, and/or bromine atoms,

or

(xvii) a radical of the formula

in which

R³⁴ represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl, or trifluoromethyl.

Claim 17 (new): A biphenylcarboxamide of formula (I) as claimed in Claim 15 in which

- R represents hydrogen, methyl, ethyl, isopropyl, or tert-butyl,
- z represents allyl, 2-butenyl, 2-methylallyl, 1-methylallyl, 3-methyl-2-butenyl, propargyl, 2-butynyl, 3-butynyl, 2-methyl-3-butynyl, 3,3-difluoroallyl, 3,3-dichloroallyl, cyclopropylmethyl, cyclopentylmethyl, or cyclohexylmethyl,
- X and Y independently of one another represent fluorine, chlorine, bromine, cyano, nitro, methyl, ethyl, n-propyl, isopropyl, n-butyl, sec-butyl, isobutyl, tert-butyl, methoxy, ethoxy, methylthio, trichloromethyl, trifluoromethyl, difluoromethyl, difluoromethyl, difluoromethoxy, trifluoromethoxy, trifluoromethylthio, or difluorochloromethylthio,
- m represents 0 or 1,
- n represents 0, 1, or 2, with the proviso that Y represents identical or different radicals when n represents 2, and
- A represents
 - (i) a radical of the formula

$$R^1$$
 N
 R^2
 R^3

in which

- R¹ represents hydrogen, fluorine, chlorine, bromine, iodine, methyl, ethyl, isopropyl, cyclopropyl, methoxy, ethoxy, methylthio, ethylthio, monofluoromethyl, difluoromethyl, trifluoromethyl, difluoromethyl, trifluoromethoxy, trifluoromethylthio, or difluoromethylthio,
- R² represents hydrogen, fluorine, chlorine, bromine, iodine, methyl, ethyl, methoxy, ethoxy, methylthio, or ethylthio, and
- R³ represents hydrogen, methyl, ethyl, hydroxymethyl, hydroxyethyl, trifluoromethyl, difluoromethyl, or phenyl,

(ii) a radical of the formula

in which

R⁴ and R⁵ independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl, difluoromethyl, trifluoromethyl, difluorochloromethyl, or trichloromethyl, and

R⁶ represents fluorine, chlorine, bromine, cyano, methyl, trifluoromethyl, trifluoromethoxy, difluoromethoxy, difluorochloromethoxy, or trichloromethoxy,

or

(iii) a radical of the formula

in which

R⁷ and R⁸ independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl, difluoromethyl, trifluoromethyl, difluorochloromethyl, or trichloromethyl, and

R⁹ represents hydrogen, fluorine, chlorine, bromine, methyl, or ethyl,

or

(iv) a radical of the formula

in which R¹⁰ represents hydrogen, fluorine, chlorine, bromine, iodine, hydroxyl, cyano, methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-butyl, difluoromethyl, trifluoromethyl, difluorochloromethyl, trichloromethyl, trifluoromethoxy, difluoromethoxy, difluorochloromethoxy, trichloromethoxy, trifluoromethylthio, difluoromethylthio, difluorochloromethylthio, or trichloromethylthio.

CS8535

or

(v) a radical of the formula

in which

R¹¹ represents fluorine, chlorine, bromine, iodine, hydroxyl, cyano, methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-butyl, methoxy, ethoxy, methylthio, ethylthio, trifluoromethyl, difluoromethyl, difluorochloromethyl, trichloromethyl, trifluoromethoxy, difluoromethoxy, difluorochloromethoxy, trichloromethoxy, difluoromethylthio, or trifluoromethylthio, and

R¹² represents hydrogen, fluorine, chlorine, bromine, iodine, cyano, methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-butyl, methoxy, ethoxy, methylthio, ethylthio, methylsulfinyl, methylsulfonyl, trifluoromethyl, difluoromethyl, difluoromethoxy, difluoromethoxy, difluoromethoxy, difluoromethoxy,

or

(vi) a radical of the formula

in which

R¹³ represents methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl, or trichloromethyl,

R¹⁴ represents methyl or ethyl,

X¹ represents S, SO, SO₂, or CH₂, and

p represents 0, 1, or 2,

(vii) a radical of the formula

in which R¹⁵ represents methyl, ethyl, trifluoromethyl, difluoromethyl, difluoromethyl, or trichloromethyl,

or

(viii) a radical of the formula

in which R¹⁶ represents methyl, ethyl, trifluoromethyl, difluoromethyl, difluoromethyl, or trichloromethyl,

or

(ix) a radical of the formula

in which

R¹⁷ represents fluorine, chlorine, bromine, cyano, methyl, ethyl, isopropyl, trifluoromethyl, difluoromethyl, difluorochloromethyl, or trichloromethyl,

R¹⁸ represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, or trichloromethyl, and

R¹⁹ represents hydrogen, methyl, ethyl, trifluoromethyl, methoxymethyl, ethoxymethyl, or hydroxymethyl,

or

(x) a radical of the formula

$$R^{21}$$
 R^{20}
 R^{22}

in which

R²⁰ and R²¹ independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluoromethyl, or trichloromethyl, and

R²² represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl, or trichloromethyl,

or

(xi) a radical of the formula

in which

R²³ and R²⁴ independently of one another represent hydrogen, fluorine, chlorine, bromine, nitro, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl, or trichloromethyl, and

R²⁵ represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl, or trichloromethyl,

or

(xii) a radical of the formula

in which

R²⁶ represents hydrogen, fluorine, chlorine, bromine, amino, methylamino, dimethylamino, cyano, methyl, ethyl, trifluoromethyl, difluoromethyl, or trichloromethyl, and

R²⁷ represents fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, or trichloromethyl,

(xiii) a radical of the formula

in which

R²⁸ represents hydrogen, fluorine, chlorine, bromine, amino, methylamino, dimethylamino, cyano, methyl, ethyl, trifluoromethyl, difluoromethyl, or trichloromethyl, and

R²⁹ represents fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluorochloromethyl, or trichloromethyl,

or

(xiv) a radical of the formula



in which R³⁰ represents fluorine, chlorine, bromine, methyl, ethyl, trifluoromethyl, difluoromethyl, difluoromethyl, or trichloromethyl,

or

(xv) a radical of the formula

in which

R³¹ represents hydrogen, methyl, or ethyl, and

R³² represents fluorine, chlorine, bromine, methyl, or ethyl,

or

(xvi) a radical of the formula

in which R³³ represents methyl, ethyl, trifluoromethyl, difluoromethyl, difluoromethyl, or trichloromethyl,

or

(xvii) a radical of the formula

in which R³⁴ represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl, or trifluoromethyl.

Claim 18 (new): A biphenylcarboxamide as claimed in Claim 15 having formula (I-1)

$$A \longrightarrow X_{m}$$

$$Y_{n} \longrightarrow X_{m}$$

$$R \longrightarrow X_{m}$$

$$O \longrightarrow Z$$

$$(I-1)$$

in which R, Z, X, Y, m, n, and A are as defined for formula (I) in Claim 15.

Claim 19 (new): A process for preparing a biphenylcarboxamide of formula (I) as claimed in Claim 15 comprising

(a) reacting a carboxylic acid derivative of formula (II)

$$\bigcap_{\mathsf{A}} \mathsf{G} \qquad \qquad (\mathsf{II})$$

in which

A is as defined for formula (I) in Claim 15, and

G represents halogen, hydroxyl, or C₁-C₆-alkoxy,

with an aniline derivative of formula (III)

$$H_2N$$
 X_m
 N_0Z
(III)

in which R, Z, X, Y, m, and n are as defined for formula (I) in Claim 15, optionally in the presence of a catalyst, optionally in the presence of an acid binder, and optionally in the presence of a diluent,

or

(b) reacting a carboxamide derivative of formula (IV)

$$A \longrightarrow N \longrightarrow Hal^1$$
 (IV)

in which

A, X, and m are as defined for formula (I) in Claim 15, and Hal¹ represents bromine or iodine, with a boronic acid derivative of formula (V)

$$G^{1}O_{B}OG^{2}$$

$$V_{n} V_{n} V_{$$

in which

R, Z, Y, and n are as defined for formula (I) in Claim 15, and G^1 and G^2 each represent hydrogen or together represent tetramethylethylene,

in the presence of a catalyst, optionally in the presence of an acid binder, and optionally in the presence of a diluent,

(c) reacting a carboxamide boronic acid derivative of formula (VI)

$$A \xrightarrow{N} H X_m$$

$$G^1O^{-B} OG^2$$
(VI)

in which

A, X, and m are as defined for formula (I) in Claim 15, and G¹ and G² each represent hydrogen or together represent tetramethylethylene,

with a phenyl oxime derivative of formula (VII)

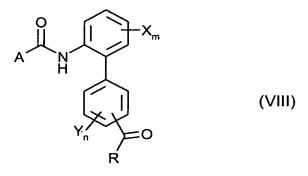
in which

R, Z, Y, and n are as defined for formula (I) in Claim 15, and Hal¹ represents bromine or iodine,

in the presence of a catalyst, optionally in the presence of an acid binder, and optionally in the presence of a diluent,

or

(d) reacting a biphenylacyl derivative of formula (VIII)



in which A, R, X, Y, m, and n are as defined for formula (I) in Claim 15, with a hydroxylamine derivative of formula (IX)

$$Z-O-NH_2 \times HCI$$
 (IX)

in which Z is as defined for formula (I) in Claim 15,

CS8535

optionally in the presence of an acid binder and optionally in the presence of a diluent,

or

(e) reacting a hydroxyimino derivative of formula (I-a)

in which A, R, X, Y, m, and n are as defined for formula (I) in Claim 15, with a compound of formula (X)

$$Z-E$$
 (X)

in which

Z is as defined for formula (I) in Claim 15, and

E represents chlorine, bromine, iodine, methanesulfonyl, or p-toluenesulfonyl,

optionally in the presence of an acid binder and optionally in the presence of a diluent,

or

(f) reacting a carboxamide derivative of formula (IV)

$$A \xrightarrow{N} H \xrightarrow{Hal^1} X_m$$
 (IV)

in which

A, X, and m are as defined for formula (I) in Claim 15, and Hal¹ represents bromine or iodine,

with a phenyl oxime derivative of formula (VII)

in which

R, Z, Y, and n are as defined for formula (I) in Claim 15,

Hal¹ represents bromine or iodine,

in the presence of a palladium or platinum catalyst and in the presence of 4,4,4',4',5,5,5',5'-octamethyl-2,2'-bis-1,3,2-dioxaborolane, optionally in the presence of an acid binder, and optionally in the presence of a diluent.

Claim 20 (new): A composition for controlling unwanted microorganisms comprising one or more biphenylcarboxamides of formula (I) as claimed in Claim 15 and one or more extenders and/or surfactants.

Claim 21 (new): A method for controlling unwanted microorganisms comprising applying an effective amount of one or more biphenylcarboxamides of formula (I) as claimed in Claim 15 to the microorganisms and/or their habitat.

Claim 22 (new): A process for preparing compositions for controlling unwanted microorganisms comprising mixing one or more biphenylcarboxamides of the formula (I) according to Claim 15 with one or more extenders and/or surfactants.

Claim 23 (new): An aniline derivative of formula (III)

$$H_2N$$
 $N O^Z$
(III)

in which

CS8535

- R represents hydrogen or C₁-C₆-alkyl; or represents C₁-C₃-haloalkyl having 1 to 7 fluorine, chlorine, and/or bromine atoms,
- Z represents C₃-C₈-alkenyl or C₃-C₈-alkynyl; represents C₃-C₈-haloalkenyl or C₃-C₈-haloalkynyl having 1 to 5 fluorine, chlorine, and/or bromine atoms; or represents (C₃-C₈-cycloalkyl)(C₁-C₄-alkyl),
- X and Y independently of one another represent halogen, cyano, nitro, C_1 - C_8 -alkyl, C_1 - C_8 -alkoxy, or C_1 - C_8 -alkylthio, or represent C_1 - C_6 -haloalkyl, C_1 - C_6 -haloalkylthio having 1 to 13 fluorine, chlorine, and/or bromine atoms,
- m represents 0, 1, 2, 3, or 4, with the proviso that X represents identical or different radicals when m represents 2, 3, or 4, and
- n represents 0, 1, 2, 3, or 4, with the proviso that Y represents identical or different radicals when n represents 2, 3, or 4.

Claim 24 (new): A boronic acid derivative of formula (V)

$$G^1O_BOG^2$$

$$V_n = N_OZ$$

$$(V)$$

in which

- R represents hydrogen or C_1 - C_6 -alkyl; or represents C_1 - C_3 -haloalkyl having 1 to 7 fluorine, chlorine, and/or bromine atoms,
- Z represents C₃-C₈-alkenyl or C₃-C₈-alkynyl; represents C₃-C₈-haloalkenyl or C₃-C₈-haloalkynyl having 1 to 5 fluorine, chlorine, and/or bromine atoms; or represents (C₃-C₈-cycloalkyl)(C₁-C₄-alkyl),
- Y represents halogen, cyano, nitro, C₁-C₈-alkyl, C₁-C₈-alkoxy, or C₁-C₈-alkylthio, or represent C₁-C₆-haloalkyl, C₁-C₆-haloalkoxy, or C₁-C₆-haloalkylthio having 1 to 13 fluorine, chlorine, and/or bromine atoms,
- n represents 0, 1, 2, 3, or 4, with the proviso that Y represents identical or different radicals when n represents 2, 3, or 4, and

G¹ and G² each represent hydrogen or together represent tetramethylethylene.

Claim 25 (new): A carboxamide boronic acid derivative of formula (VI)

$$A \xrightarrow{O} N \xrightarrow{B} OG^{2}$$
 (VI)

in which

G¹ and G² each represent hydrogen or together represent tetramethylethylene,

- X represents halogen, cyano, nitro, C₁-C₈-alkyl, C₁-C₈-alkoxy, or C₁-C₈-alkylthio, or represent C₁-C₆-haloalkyl, C₁-C₆-haloalkoxy, or C₁-C₆-haloalkylthio having 1 to 13 fluorine, chlorine, and/or bromine atoms,
- m represents 0, 1, 2, 3, or 4, with the proviso that X represents identical or different radicals when m represents 2, 3, or 4, and
- A represents
 - (i) a radical of the formula

in which

R¹ represents hydrogen, cyano, halogen, nitro, C₁-C₄-alkyl, C₃-C₆-cycloalkyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, aminocarbonyl, or aminocarbonyl-C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl, C₁-C₄-haloalkylthio having 1 to 5 halogen atoms,

 R^2 represents hydrogen, halogen, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, or C_1 - C_4 -alkylthio, and

R³ represents hydrogen, C₁-C₄-alkyl, hydroxy-C₁-C₄-alkyl, C₂-C₆-alkenyl, C₃-C₆-cycloalkyl, C₁-C₄-alkylthio-C₁-C₄-alkyl, or C₁-C₄-alkyl; represents C₁-C₄-haloalkyl, halo(C₁-C₄-alkyl-thio-C₁-C₄-alkyl), or halo(C₁-C₄-alkoxy-C₁-C₄-alkyl) having 1 to 5 halogen atoms; or represents phenyl,

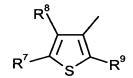
(ii) a radical of the formula

in which

R⁴ and R⁵ independently of one another represent hydrogen, halogen, C₁-C₄-alkyl, or C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and represents halogen, cyano or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl or C₁-C₄-haloalkoxy having 1 to 5 halogen atoms,

or

(iii) a radical of the formula



in which

 R^7 and R^8 independently of one another represent hydrogen, halogen, C_1 - C_4 -alkyl, or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms, and R^9 represents hydrogen, halogen, or C_1 - C_4 -alkyl,

or

(iv) a radical of the formula

in which R^{10} represents hydrogen, halogen, hydroxyl, cyano, or C_1 - C_6 -alkyl; or represents C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkoxy, or C_1 - C_4 -haloalkylthio having 1 to 5 halogen atoms,

or

(v) a radical of the formula

in which

R¹¹ represents halogen, hydroxyl, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy, or C₁-C₄-alkylthio; or represents C₁-C₄-haloalkyl, C₁-C₄-haloalkyl, or C₁-C₄-haloalkylthio having 1 to 5 halogen atoms, and represents hydrogen, halogen, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, or C₁-C₄-alkylsulfonyl; or represents C₁-C₄-haloalkyl or C₁-C₄-haloalkoxy having 1 to 5 halogen atoms,

or

(vi) a radical of the formula

in which

 R^{13} represents C_1 - C_4 -alkyl or represents C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

R¹⁴ represents C₁-C₄-alkyl,

X¹ represents S, SO, SO₂, or CH₂, and

p represents 0, 1, or 2,

or

(vii) a radical of the formula

in which R^{15} represents C_1 - C_4 -alkyl or represents C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

(viii) a radical of the formula

in which R^{16} represents $C_1\text{-}C_4\text{-}$ alkyl or represents $C_1\text{-}C_4\text{-}$ haloalkyl having 1 to 5 halogen atoms,

(ix) a radical of the formula

in which

R¹⁷ represents halogen, cyano, C₁-C₄-alkyl or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

R¹⁸ represents hydrogen, halogen, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and

R¹⁹ represents hydrogen, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl having 1 to 5 halogen atoms, C₁-C₄-alkoxy-C₁-C₄-alkyl, hydroxy-C₁-C₄-alkyl, C₁-C₄-alkysulfonyl, di(C₁-C₄-alkyl)aminosulfonyl, C₁-C₆-alkylcarbonyl; or represents optionally substituted phenylsulfonyl or benzoyl,

or

(x) a radical of the formula

$$R^{21}$$
 R^{20}
 R^{22}

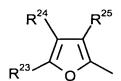
in which

R²⁰ and R²¹ independently of one another represent hydrogen, halogen, amino, or C₁-C₄-alkyl or represent C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and

 R^{22} represents hydrogen, halogen, or C_1 - C_4 -alkyl; or represents C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

(xi) a radical of the formula



in which

R²³ and R²⁴ independently of one another represent hydrogen, halogen, amino, nitro, or C₁-C₄-alkyl or represent C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and

R²⁵ represents hydrogen, halogen, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

(xii) a radical of the formula

in which

R²⁶ represents hydrogen, halogen, amino, C₁-C₄-alkylamino, di(C₁-C₄-alkyl)amino, cyano, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and

R²⁷ represents halogen, C₁-C₄-alkyl, or C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

(xiii) a radical of the formula

in which

R²⁸ represents hydrogen, halogen, amino, C₁-C₄-alkylamino, di(C₁-C₄-alkyl)amino, cyano, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and

R²⁹ represents halogen, C₁-C₄-alkyl, or C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

(xiv) a radical of the formula

in which R^{30} represents halogen, C_1 - C_4 -alkyl, or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

(xv) a radical of the formula

in which

R³¹ represents hydrogen or C₁-C₄-alkyl, and

R³² represents halogen or C₁-C₄-alkyl,

or

(xvi) a radical of the formula

$$\bigcap_{\mathsf{R}^{33}}$$

in which R^{33} represents $C_1\text{-}C_4\text{-}$ alkyl or $C_1\text{-}C_4\text{-}$ haloalkyl having 1 to 5 halogen atoms,

or

(xvii) a radical of the formula

in which R^{34} represents hydrogen, halogen, C_1 - C_4 -alkyl, or C_1 - C_2 -haloalkyl having 1 to 5 halogen atoms.

Claim 26 (new): A biphenylacyl derivative of formula (VIII)

CS8535

in which

- R represents hydrogen or C_1 - C_6 -alkyl; or represents C_1 - C_3 -haloalkyl having 1 to 7 fluorine, chlorine, and/or bromine atoms,
- X and Y independently of one another represent halogen, cyano, nitro, C_1 - C_8 -alkyl, C_1 - C_8 -alkoxy, or C_1 - C_8 -alkylthio, or represent C_1 - C_6 -haloalkyl, C_1 - C_6 -haloalkylthio having 1 to 13 fluorine, chlorine, and/or bromine atoms,
- m represents 0, 1, 2, 3, or 4, with the proviso that X represents identical or different radicals when m represents 2, 3, or 4,
- n represents 0, 1, 2, 3, or 4, with the proviso that Y represents identical or different radicals when n represents 2, 3, or 4, and

A represents

(i) a radical of the formula

in which

- R¹ represents hydrogen, cyano, halogen, nitro, C₁-C₄-alkyl, C₃-C₆-cycloalkyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, aminocarbonyl, or aminocarbonyl-C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl, C₁-C₄-haloalkylthio having 1 to 5 halogen atoms,
- R² represents hydrogen, halogen, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy, or C₁-C₄-alkylthio, and
- R³ represents hydrogen, C₁-C₄-alkyl, hydroxy-C₁-C₄-alkyl, C₂-C₆-alkenyl, C₃-C₆-cycloalkyl, C₁-C₄-alkylthio-C₁-C₄-alkyl, or C₁-C₄-alkyl; represents C₁-C₄-haloalkyl, halo(C₁-C₄-alkyl-thio-C₁-C₄-alkyl), or halo(C₁-C₄-alkoxy-C₁-C₄-alkyl) having 1 to 5 halogen atoms; or represents phenyl,

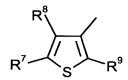
(ii) a radical of the formula

in which

R⁴ and R⁵ independently of one another represent hydrogen, halogen, C₁-C₄-alkyl, or C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and represents halogen, cyano or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl or C₁-C₄-haloalkoxy having 1 to 5 halogen atoms,

or

(iii) a radical of the formula



in which

 R^7 and R^8 independently of one another represent hydrogen, halogen, C_1 - C_4 -alkyl, or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms, and R^9 represents hydrogen, halogen, or C_1 - C_4 -alkyl,

or

(iv) a radical of the formula

in which R^{10} represents hydrogen, halogen, hydroxyl, cyano, or C_1 - C_6 -alkyl; or represents C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkoxy, or C_1 - C_4 -haloalkylthio having 1 to 5 halogen atoms,

or

(v) a radical of the formula

in which

R¹¹ represents halogen, hydroxyl, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy, or C₁-C₄-alkylthio; or represents C₁-C₄-haloalkyl, C₁-C₄-haloalkyl, c₁-C₄-haloalkylthio having 1 to 5 halogen atoms, and represents hydrogen, halogen, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-alkylthio, C₁-C₄-alkylsulfinyl, or C₁-C₄-alkylsulfonyl; or represents C₁-C₄-haloalkyl or C₁-C₄-haloalkoxy having 1 to 5 halogen atoms,

or

(vi) a radical of the formula

in which

R¹³ represents C₁-C₄-alkyl or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

R¹⁴ represents C₁-C₄-alkyl,

X¹ represents S, SO, SO₂, or CH₂, and

p represents 0, 1, or 2,

or

(vii) a radical of the formula

in which R^{15} represents C_1 - C_4 -alkyl or represents C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

(viii) a radical of the formula

in which R^{16} represents C_1 - C_4 -alkyl or represents C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

(ix) a radical of the formula

in which

R¹⁷ represents halogen, cyano, C₁-C₄-alkyl or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

R¹⁸ represents hydrogen, halogen, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and

R¹⁹ represents hydrogen, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl having 1 to 5 halogen atoms, C₁-C₄-alkoxy-C₁-C₄-alkyl, hydroxy-C₁-C₄-alkyl, C₁-C₄-alkysulfonyl, di(C₁-C₄-alkyl)aminosulfonyl, C₁-C₆-alkylcarbonyl; or represents optionally substituted phenylsulfonyl or benzoyl,

or

(x) a radical of the formula

$$R^{21}$$
 R^{20}
 R^{22}

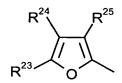
in which

 R^{20} and R^{21} independently of one another represent hydrogen, halogen, amino, or C_1 - C_4 -alkyl or represent C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms, and

R²² represents hydrogen, halogen, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

(xi) a radical of the formula



in which

 R^{23} and R^{24} independently of one another represent hydrogen, halogen, amino, nitro, or $\mathsf{C}_1\text{-}\mathsf{C}_4\text{-}$ alkyl or represent $\mathsf{C}_1\text{-}\mathsf{C}_4\text{-}$ haloalkyl

having 1 to 5 halogen atoms, and

R²⁵ represents hydrogen, halogen, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

(xii) a radical of the formula

in which

R²⁶ represents hydrogen, halogen, amino, C₁-C₄-alkylamino, di(C₁-C₄-alkyl)amino, cyano, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and

R²⁷ represents halogen, C₁-C₄-alkyl, or C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

(xiii) a radical of the formula

in which

R²⁸ represents hydrogen, halogen, amino, C₁-C₄-alkylamino, di(C₁-C₄-alkyl)amino, cyano, or C₁-C₄-alkyl; or represents C₁-C₄-haloalkyl having 1 to 5 halogen atoms, and

R²⁹ represents halogen, C₁-C₄-alkyl, or C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

(xiv) a radical of the formula

in which R^{30} represents halogen, C_1 - C_4 -alkyl, or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

(xv) a radical of the formula

in which

R³¹ represents hydrogen or C₁-C₄-alkyl, and

R³² represents halogen or C₁-C₄-alkyl,

or

(xvi) a radical of the formula

in which R^{33} represents C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

(xvii) a radical of the formula

in which R^{34} represents hydrogen, halogen, C_1 - C_4 -alkyl, or C_1 - C_2 -haloalkyl having 1 to 5 halogen atoms.

Claim 27 (new): A 2-benzaldehyde aniline derivative of formula (XIV)

$$H_2N$$
 X_m
 X_m
 Y_n
 X_m
 Y_n
 Y_n

in which

- R represents hydrogen or C_1 - C_6 -alkyl; or represents C_1 - C_3 -haloalkyl having 1 to 7 fluorine, chlorine, and/or bromine atoms,
- X and Y independently of one another represent halogen, cyano, nitro, C₁-C₈-alkyl, C₁-C₈-alkoxy, or C₁-C₈-alkylthio, or represent C₁-C₆-haloalkyl, C₁-C₆-haloalkylthio having 1 to 13 fluorine, chlorine, and/or bromine atoms,
- m represents 0, 1, 2, 3, or 4, with the proviso that X represents identical or different radicals when m represents 2, 3, or 4, and
- n represents 0, 1, 2, 3, or 4, with the proviso that Y represents identical or different radicals when n represents 2, 3, or 4. --

CS8535 - 40 -